

**APPENDIX B**  
**LIST OF ACRONYMS AND ABBREVIATIONS**



## APPENDIX B

### LIST OF ACRONYMS AND ABBREVIATIONS

°C	degree Celsius	AES	advanced encryption standard
γ	gamma	AES	auger electron microscope
λ	lambda	AETWG	Armaments and Energetic Materials Technology Working Group
μ	micron	AEW	aircraft early warning
μA	microampere	AFB	Air Force Base
μF	microfarad	AFC	alkaline fuel cell
μJ	microjoule	AFM	atomic force microscopy
μJ/cm	microjoules per square centimeter	AFRL	Air Force Research Laboratory
μm	micrometer	AFSOR	Air Force Office of Scientific Research
μsec	microsecond	Ag	silver
Ω	ohm	AG	Australia Group
2-D	two-dimensional	AGARD	Advisory Group for Aerospace Research and Development
3-D	three-dimensional	AgGaSe <sub>2</sub>	silver gallium selenide
A	ampere	AGL	above ground level
A/D	analog to digital	AGMA	American Gear Manufacturers Association
A/sec	amperes per second	AGR	advanced gas reactor
ABEC	Annular Bearing Engineers Committee	Ah	ampere-hour
ABS	antilock braking system	AHRS	altitude and heading reference systems
AC	alternating current	AI	artificial intelligence
ACHR	acetylcholine receptor	AIDS	acquired immune deficiency syndrome
ACIPS	advanced collective integrated protection system	AlN	aluminum indium nitride
ACM	attitude control module	AIP	air independent power
ACVs	air cushion vehicles	AISI	American Iron and Steel Institute
AD	air defense	AIST	Agency of Industrial Science and Technology
ADD	attention deficit disorder	AIWS	advanced interdiction weapon system
ADP	adenosine diphosphate	AJ	anti-jam
ADS	air defense suppression	AL	Albania
ADS	advanced distributed system	Al-Li	aluminum-lithium
ADSRC	Advanced Distributed Simulation Research Consortium		
ADTS	asynchronous digital transmission system		

ALPS	assembly-line processing system	AT	antitank
ALU	arithmetic logic unit	AT	Austria
Am	americium	ATAC	Advance Technology Aircraft
AM	amplitude modulation	ATACMS	army tactical missile system
AM0	air mass 0	ATACS	advanced tank cannon system
AM1.5	air mass 1.5	ATAR	Advanced Technology Assessment Report
AMC	Army Materiel Command	ATC	air traffic control
AMD	antimissile defense	ATCC	American type culture collection
AMMO	azidomethylmethyloxetane	ATE	automatic test equipment
AMTEC	alkali metal thermal-to-electric converter	ATIRCM	advanced tactical infrared countermeasures
AN	ammonium nitrate	ATM	asynchronous transfer mode
ANMO	azidonitratomethyloxetane	ATR	automatic target recognition
ANN	artificial neural network	ATP	adenosine triphosphate
ANSI	American National Standards Institute	AU	Australia
ANTEC	alkali-metal thermal-to-electrical converter	Au	gold
AP	ammonium perchlorate	AUV	autonomous underwater vehicle
AP	antipersonnel	AUV	autonomous unmanned vehicle
APOD	aerial port of debarkation	AVLIS	atomic vapor laser isotope separation system
Ar	argon	AVS	automated vapor sampling
AR	Argentina	AW	advanced weapons systems
ARL	Army Research Laboratory	AWACS	Airborne Warning and Control System
A-S	antispoofing		
As	arsenide		
AS4/T-500	carbon filter designations	B	magnetic induction
a-Si	amorphous silicon	Ba	barium
ASIC	application-specific integrated circuit	BAMO	bisazidomethyloxetane
AS-15s	Russian cruise missile	BAPO	phosphine oxide
ASMD	antiship missile defense	bar	0.987 atmospheres
ASTAMIDS	airborne stand-off minefields detection system	BASE	beta alumni solid electrolyte
ASTM	American Society for Testing and Materials	B/C	biological and chemical
ASTMP	Army Science and Technology Master Plan	BCIS	battlefield combat identification system
ASTWG	Aeronautics Systems Technology Working Group	BCMO	bischloromethyloxetane
ASW	antisubmarine warfare	BDA	battle damage assessment
		BDNPA	bis(2,2-dinitropropyl) formal and acetal
		BDNPF	bis(2,2-dinitropropyl) formal
		BDU	battle dress uniform

BE	Belgium	BW	biological weapon(s)
Be/Be	beryllium/beryllium	BWC	Biological Weapons Convention
BER	bit error rate	BWR	boiling water reactor
BG	Bulgaria		
BH	magnetic	C	Celsius temperature
BHEGA	bis-2-hydroxyethylglycolamide	C2	command and control
BHP	brake horsepower	C2I	command, control, and intelligence
BICMOS	bipolar complementary metal oxide semiconductor	C3	command, control, and communications
BIFF	battlefield identification friend or foe	C3CM	command, control, and communications countermeasures
BITA	butylene imine trimesamide (polyfunctional aziridine amides with isophthalic, trimesic)	C3I	command, control, communications, and intelligence
BIDS	biological integrated detection system	C4I	command, control, communications, computers, and intelligence
BITWG	Biological Technology Working Group	C4I2	command, control, communications, computing, intelligence, and information systems
BL	biosafety level	C4IFTW	C4I for the warrior
BLOS	beyond line-of-sight	CA	Canada
BLSR	bidirectional line-switched ring	CA	certification authorities
BLU 80/B	Bigeye Weapon	CAD	computer-aided design
BMD	Ballistic Missile Defense	CAD/CAE	computer-aided design/ engineering
BNCP	cis-bis(5-nitrotetrazolato) penta-aminecobalt (iii) perchlorate	CAD/CAM	computer-aided design/ manufacturing
BNMO	bis(nitratomethyl)oxetane	CAD/CAM/CAT	computer-aided design/ manufacturing/testing
BNO	butadienitrileoxide	CAE	computer-aided engineering
BOBBA 8	bis(2-methyl aziridinyl)-2-(2-hydroxypropanoxy)propylamino phosphine oxide	CAE/CAD	computer-aided engineering/ design
BOL	beginning of life	CAG	carrier aircraft group
BOOM	binocular omni-oriented monitor	CAI	computer-aided inspection
BP	black powder	cal	calorie
bps	bits per second	cal/cm <sup>2</sup>	calories per square centimeter
BR	Brazil	cal/cm <sup>2</sup> -sec	calories per square centimeter second
BR	bacteriorhodopsin	CAM	chemical agent monitor
BRM	biological response modifier	CAM	computer-aided manufacturing
BSC	biological safety cabinet	CANDU	Canadian deuterium uranium (reactor)
BTTN	butanetrioltrinitrate		
BTU	British thermal units	CAPI	cryptographic application interface
BTU/ft <sup>2</sup>	BTU per square foot	CAS	Chemical Abstract Service
BVR	beyond visual range	CAS	close air support

CAS	computer-aided servicing	CEPT	Conference of Postal and Telecommunications Administration
CAS/M	computer-aided servicing/maintenance		
CAT	computer-aided testing	CFD	computational fluid dynamics
CATOX	catalytic oxidation	CGA	computer-generated actor
CATT	controlled avalanche transit-time triode	CH	Switzerland
CAVE	computer automatic virtual environment	CHEMEX	chemical exchange process
CB	chemical and biological	CHPS	Combat Hybrid Power Systems
CBDCOM	Chemical Biological Defense Command (Army)	CHTWG	Chemical Technology Working Group
c-BN	cubic boron nitride	CID	charge injection device
CBPS	chemically and biologically protected shelter	CID	combat identification
CBRIF	Chemical Biological Incident Response Force	CIDDS	combat identification dismounted soldier
CBW	chemical and biological warfare	CIF3	chlorine trifluoride
cc	cubic centimeters	CIP	cold isostatic pressing
CC	combinatorial chemistry	CISC	complex instruction set computing
CCD	charge-coupled device	CIWG	Combat Identification Working Group
CCL	Commerce Control List	CJCSI	Chairman, Joint Chiefs of Staff Instruction
CCM	computer-controlled machines	CL	Chile
CCM	counter-countermeasures	CL-14	5,7-diamino-4,6-dinitrobenzo-furazane-1-oxide
CCS	common channeling signaling	CL-20/HNIW	hexanitro-hexaazaisowurtzitane
Cd	cadmium	CLOS	command-line-of-sight
CD	compact disk	cm	centimeter
CD	critical diameter	cm <sup>2</sup>	square centimeter
CD	critical dimension	cm <sup>3</sup>	cubic centimeter
CdHgTe	cadmium mercury telluride	CMC	ceramic matrix composite
CDL	chemical double layer	CMIP	common management information protocol
CDMA	Code Division Multiple Access	CMISE	common management information service element
CDs	Compton diodes	CMM	coordinate measuring machine
CDT	critical developing technology	CMOL	CMIP over logical link control
CdTe	cadmium telluride	CMOS	complementary metal oxide semiconductor
CDU	control and display unit	CMOT	complementary metal oxide technology
CdZnTe	cadmium zinc telluride		
CE	computing element	CMP	chemical mechanical planarization
CEP	circular error probable		

CMST	common management information services over TCP/IP	CT	computerized tomography
cmW	centimeter wave	CTBT	Comprehensive Test Ban Treaty
CMW	centimeter wave	CTP	composite theoretical performance
CN	China	CTPB	carboxyl-terminated polybutadiene
CNM	customer network management	Cu	copper
CNO	Chief of Naval Operations	CU	Cuba
CNS	central nervous system	CVD	chemical vapor deposition
CNT	carbon nanotube	CW	chemical warfare
CNTD	controlled nucleation thermal decomposition	CW	chemical weapon(s)
CO	carbon monoxide	CW	continuous wave
CO	central office	CWC	Chemical Weapons Convention
CO	Colombia	CXRD	coaxial X-ray diodes
CO <sub>2</sub>	carbon dioxide	CYBERSPACE	Internet domain
COBRA	collection of broadcasts from remote assets	CYBERWAR	use of computers and telecommunications as weapons of destruction
COCOM	Coordinating Committee for Multilateral Strategic Export Controls	CZ	convergence zone
COIL	chemical oxygen iodine lasers	C-C	carbon-carbon
COLEX	column exchange	D	deuterium
COMINT	communication intelligence	D*	spectral detectivity
COMM	communication	D/A	digital to analog
CONUS	Continental United States	D <sub>2</sub> O	deuterium oxide (heavy water)
COTS	commercial-off-the-shelf	DAC	digital to analog converters
CP	2-(5-cyanotetrazolato) penta-amine-cobalt (iii) perchlorate	DAF	diaminofarazan
CPB	charged particle beams	DARPA	Defense Advanced Research Projects Agency
CPE	customer premises equipment	DATB	diaminotrinitrobenzene
CPU	central processing unit	dB	decibel
CR	Czech Republic	DBC	direct bonded copper
CRDA	commercial research and development agreement	dBm	decibel referred to 1 milliwatt
CREB	cyclic AMP response element binding	DBRN	data-based referenced navigation
CRT	cathode ray tube	DC	direct current
CRYPTO	cryptographic	DCC	digital cross-connect system
CS	Czechoslovakia	DCE	distributed computing environment
CSP	chip-scale packaging	DCN	data communication networks
CSU	channel service unit	DCS	digital cross-connect systems
		DCT	Developing Critical Technologies
		DCTP	defense critical technologies plan
		DDT	deflagration to detonation transition

DD/DT	deuterium deuterium/deuterium tritium	DMSO	dimethyl sulfoxide
DE	Germany (ISO)	DN	bearing bore in mm multiplied by speed in rpm
DE	directed energy	DNA	Defense Nuclear Agency
DE	discrete event	DNA	deoxyribonucleic acid
DE ATAC	Directed Energy Advanced Technology Aircraft	DNGU	dinitroglycoluril
DECADE	DNA X-ray simulator program	DNHR	dynamic nonhierarchical routing
deg	degree	DOC	Department of Commerce
deg/hr	degrees/hour	DoD	Department of Defense
DECON	decontamination	DODD	Department of Defense Directive
DEMO	demonstration	DOE	Department of Energy
DEMP	dispersed electromagnetic pulse	DOF	depth of focus
DERA	Defence Evaluation and Research Agency (UK)	DOS	Department of State
DES	data encryption standard	DQ	detection quotient
DEW	directed-energy weapon	DRAM	dynamic random access memory
DF	deuterium fluoride	DREAM	directed radio-frequency energy-assessment model
DF	difluor: methyl phosphonyl difluoride	DRM	dead-reckoning module
DFAD	digital feature analysis data	DS	digital signals
DFE	diferrocenylethane	DS	directionally solidified
DGNSS	differential global navigation satellite system	DS-0	digital signal level 0
DGPS	differential Global Positioning System	DS-I	digital signal level 1 = 544 mbytes
DGZ	designated ground zero	DS-N	digital signal hierarchy
DHG	oxalohydroxamic acid	DSP	digital signal processor (processing)
DIC	dispositif d'identification au combat	DSU	data service unit
DINGU	dinitroglycoluril	DT	deuterium tritium
DIPAM	diaminohexanitrobiphenyl	DTE	data terminal equipment
DIRCM	defensive infrared countermeasures	DTED	digital terrain elevation data
DIS	distributed interactive simulation	DTG	dry-tuned gyroscope
DIW	detection, identification, warning	DTR	data transfer rate
DK	Denmark	DTRA	Defense Threat Reduction Agency
DKTWG	Directed Energy and Kinetic Energy Technology Working Group	DU	depleted uranium
DLC	diamond-like carbon	DUV	deep ultraviolet
DLC	digital loop carrier	DVD	digital video disk
DME	distance-measuring equipment	DZ	Algeria
DMS	diluted magnetic semiconductors	E	energy
		e.b.b	equivalent blackbody
		E/O	electro/optical



EA	electronic attack	EMC	electromagnetic compatibility
EAA	Export Administration Act	EMCDB	elastomer modified-cost double-based propellants
EAR	Export Administration Regulations	EMHD	explosive magnetohydrodynamic
EB	electron beam	EMHDG	explosive magnetohydrodynamic generator
EBDW	electron-beam direct writer	EMI	electromagnetic induction
EBPVD	electron-beam physical vapor deposition	EMI	electromagnetic interference
EBR-II	Experimental Breeder Reactor II	EMIS	electromagnetic isotope separation
EC	electronics and countermeasures	EMP	electromagnetic pulse
E-Cash	electronic cash	ENTWG	Energy Systems Technology Working Group
ECC	elliptic curve cryptography	E <sub>0</sub>	sublimation energy
ECCM	electronic counter-countermeasures	EO	electro-optical
ECCN	Export Control Classification Number	EOCCM	electro-optical counter-countermeasures
ECM	electronic countermeasures	EOCM	electro-optical countermeasures
ECR	electron cyclotron resonance	EOD	explosive ordinance disposal
ECS	electrostatic chucks	EOS	equation of state
EDM	electrical discharge machines	EP	electronic protection
EDP	electric dipole-produced	EPA	Environmental Protection Agency
EEC	European Economic Community	EPC	electronic power conditioner
EEG	electroencephalogram	EPLRS	enhanced position location reporting system
EELV	enhanced expendable launch vehicle	EPRI	Electric Power Research Institute
EEPROM	electrically erasable programmable read-only memory	EPROM	erasable programmable read-only memory
EFP	explosively formed penetrator	EPS	environmental protection system
EG	Egypt	ERC	Energy Research Corporation
EGI	embedded Global Positioning System inertial	EROS	Earth Resources Observation Systems
EGM	Earth gravitational model	ES	electronic suppression
EGNOS	European Geostationary Navigation Overlay Service	ESA	electronic safe and arm
EHF	extremely high frequency	ESA	European Space Agency
EIA	Electronic Industries Association	ESG	electrostatically supported gyroscope
ELEX	electro-exchange	ESL	equivalent series inductance
ELFE	extremely low-frequency emission	ESM	electronic support measure
ELINT	electronic intelligence	ESR	equivalent series resistance
ELPRS	enhanced position location reporting system	ETC	electrothermal-chemical
ELTWG	Electronics Technology Working Group	ETDL	Electronic Technology and Devices Laboratory
EM	electromagnetic		

ETH	Eidgenössisches Technische Hochschule	FET	field effect transistor
ETNO	European Telecommunications Network Operators	FFT	fast Fourier transform
ETSI	European Telecommunications Standards Institute	FI	Finland
EU	European Union	FID	flame ionization detector
EURESCOM	European Institute for Research and Strategic Studies in Telecommunications	FIFV	future infantry fighting vehicle
EUV	extreme ultraviolet	FIPS	Federal Information Processing Standard
EUVL	extreme ultraviolet lithography	FIS	field ion spectrometry
eV	electron volt	FLIR	forward-looking infrared radar
EV	electronic vehicle	FM	frequency modulation
EW	electronic warfare	FMRI	functional magnetic resonance imaging
F	farad	FOG	fiber-optic gyroscope
f/max	maximum frequency	FOV	field of view
f/min	minimum frequency	FPA	focal plane array
F3I	form, fit, function, and interchangeable	FPD	flame photometric detector
FA	functional areas	FPE	fluoropolyester
FAC	fast-acting closure	FPKI	Federal Public Key Infrastructure
FAC	forward air controller	fps	feet per second
FADEC	full authority digital electronic engine controls	FR	France
FAE	fuel-air explosives	FSS	frequency selective surface
FALCON	fuel-air line charge ordnance neutralizer	FSU	Former Soviet Union
FBI	Federal Bureau of Investigation	ft	foot
FCC	Federal Communications Commission	ft <sup>3</sup>	cubic foot
FCS	flight control systems	ft-lb	foot-pound
FDA	Food and Drug Administration	FTA	Foreign Technology Assessment
FDDI	fast digital data interconnect	FTW	for the warrior
FDM	frequency division multiplexing	FWHM	full width at half maximum
FEA	finite element analysis	FXR	flash X ray
FEBA	forward edge of the battle area	FY	Fiscal Year
FEFO	bis-2-fluoro-2,2-dinitroethylformal		
FEL	free electron laser	g	gram
FEMA	Federal Emergency Management Agency	g	measure of acceleration of gravity [32 feet per second <sup>2</sup> (9.8 m/second <sup>2</sup> )]
		G agents	nerve agents
		G&G	geodetic and geophysical
		G-7	group of seven industrial nations
		G-8	G-7 nations plus Russia
		Ga	gallium
		GA	tabun (nerve agent)

GaAs	gallium arsenide	GR	Greece
GABA	gamma-aminobutyric acid	GRMS	gravity root mean square
Gal	Galileo	GS	ground systems
GaN	gallium nitride	GSAC	gas seal auxiliary closure
GAO	General Accounting Office	GST	glutathione S-transferase
GAP	glycidylazide polymer	GSTAMIDS	ground standoff mine detection system
GB	sarin (nerve agent)	GSTWG	Ground Systems Technology Working Group
Gbits/s	gigabits per second	GTE	gas turbine engines
GBq	gigabecquerel	GTN	General Technology Note
GC	gas chromatography	GTO	gate turn-off
GCCS	global command and control system	GUI	graphical user interface
GD	soman (nerve agent)	GW	gigawatt
GDP	gross domestic product	Gy	Gray (gy) is a unit of absorbed dose of ionizing radiation equal to 1 joule per kilogram of absorber
GDSS	group decision support system		
Ge	germanium		
GE	Germany		
GFE	government-furnished equipment	H	hour
GFLOPS	giga (10 <sup>9</sup> ) floating point operations per second	HA	hemagglutinin
GHz	gigahertz (10 <sup>9</sup> hertz)	HAN	hydroxylammonium nitrate
GHz/sec	gigahertz per second	HAP	hydroxylammonium perchlorate
GIS	Geographic Information Systems	HAZMAT	hazardous materials
GLONASS	Global Navigation Satellite System (Russian)	HBiW	hexabenzyl-hexaazaisowurtzitane
gm	gram	HBO	hyperbaric oxygen
GMCC	ground mobile command center	HBT	hetero-bipolar transistors
GMP	good manufacturing practices	HDDR	high-density digital recording
GMR	giant magnetoresistive	HDL	high-level development language
GMTI	ground moving target indication	HDO	singly deuterated water
GNSS	Global Navigation Satellite Systems	HDTV	high-definition television
GP	genetic polymorphism	HE	high explosive
GPa	gigapascals	HEL	high-energy laser
GPA	one megabar	HEMP	high-altitude electromagnetic pulse
GPC	general-purpose computer	HEMT	high electron mobility transistor
GPIC	general-purpose integrated circuit	HEPA	high-efficiency particulate air
GPR	ground-penetrating radar	HEU	highly enriched uranium
GPS	Global Positioning System	HF	high frequency
GPtS	Global Positioning and Time System	HF	hydrofluoric acid
		HFCG	helical flux compression generator
		HfF <sub>4</sub>	hafnium fluoride

Hg	mercury
HgCdTe	mercury cadmium telluride
HHS	Health and Human Services
HIP	hot isostatic pressing
HIV	human immunodeficiency virus
HK	Hong Kong
HLA	high-level architecture
HLA	major histo compatibility
HLOS	horizontal line of sight
HMD	helmet-mounted displays
HMX	cyclotetramethylene-tetranitramine
HNIW	hexanitro-hexaazaisowurtzitane
HNO <sub>3</sub>	nitric acid
HNS	hexanitrostilbene
HOB	height of burst
hp	horsepower
HPE	high-power electronics
HPM	high-power microwave
HPVI	hypervelocity impact
HRG	hemispherical resonator gyroscope
HRR	high range resolution
HSD	high strength to density
HSE	high-speed encryption
HSP	heat shock protein
HSTAMIDS	hand-held standoff mine detection system
HTO	singly tritiated water
HTPB	hydroxyl-terminated polybutadiene
HTS	high-temperature superconducting
HTS	high-temperature synthesis
HTT	horizontal tunnel tests
HTU	handheld terminal unit
HU	Hungary
HUD	head-up display
HVAC	heating, ventilation, and air conditioning
HWR	heavy water reactor
Hz	hertz
I/O	input/poutput circuit

I2	image intensifier
I <sup>2</sup> R	power
IAB	Internet Activities Board
IAEA	International Atomic Energy Agency
IAEL	International Atomic Energy List
IAG	International Association of Geodesy
IC	Iceland [IS - (ISO)]
IC	integrated circuit
IC	intelligence community
ICBM	intercontinental ballistic missile
ICD	interface control document
ICt	incapacitating concentration time
ID	identification
ID	incapacitating dose
ID	Indonesia
IE	Ireland
IEEE	Institute of Electrical and Electronic Engineers
IF	intermediate frequency
IFF	identification friend or foe
IFOV	instantaneous field of view
IFSAR	interferometric synthetic aperture radar
IGBT	insulated gate bipolar transit
IHAS	integrated helmet assembly subsystem
IIL	International Industrial List
IL	Industrial List
ILS	instrument landing system
IM&C	information system management and control
IMEC	Industrial Microelectronics Center
IMPATT	impact avalanche transit-time triode
IMS	ion mobility spectrometry
IMU	inertial measurement unit
in	inch
In	indium
IN	India
INAV	integrated navigation

IND	improvised nuclear device	J	joule
INFO COM	information communications	J/cc	joules per cubic centimeter
INFO EXCH	information exchange	J/gm	joules/gram
INFOSEC	information security	J/kg	joules per kilogram
INFOWAR	information warfare	J/pulse	joules per pulse
INMS	integrated network management systems	JCS	Joint Chiefs of Staff
INS	inertial navigation system	JDAM	Joint direct attack munition
InSb	indium antimonide	JP	Japan
Internet	international computer network	JPEG	Joint Photographic Experts Group
IO	information operations	JPL	Jet Propulsion Laboratory
IOM	Institute of Medicine	JSLIST	Joint Service lightweight integrated suit technology
IP	internet protocol	JSOW	Joint standoff weapon
IP	isostatic pressing	JSTARS	Joint Surveillance Target Attack Radar System
IQ	Iraq	JT	joule-thomson
IPFN	integrated pulse-forming network	JV	Joint Vision
IR	infrared		
IR	Iran	k	magnetomechanical coupling+ factor
IRCM	infrared countermeasures	K	Kelvin temperature
IRIG	Interrange Instrumentation Group	K	thousand (kilo)
IRST	infrared search and track	K-6	2,4,6-trinitro-2,4,6-triazacyclohexanone
IS	Iceland	kA	kiloamperes
IS	information system	kA/cm <sup>2</sup>	kiloamperes per cm <sup>2</sup>
ISAR	inverse synthetic aperture radar	kA/ns	kiloampere per nanosecond
ISDN	integrated services digital network	kbar	kilobar
ISO	International Standards Organization	kbit	kilobit
IT	information technologies	kbits	kilobits per second
IT	Italy	kcal	kilocalorie
I <sub>t</sub>	total impulse	kD	kilodaltons
ITAR	International Traffic in Arms Regulations	KDN	potassium dinitramide
ITRF	International Terrestrial Reference Frame	KE	kinetic energy
ITTWG	Information Technology Technology Working Group	Keto-RDX	2,4,6-trinitro-2,4,6-triazacyclohexanone
ITU	International Telecommunications Union	keV	kilo electron volt
IXC	interexchange carrier	KEW	kinetic energy weapon
		kG	kilogauss
		kg	kilogram
		kg/dm <sup>3</sup>	kilograms per cubic decimeter

kg/kW	kilogram per kilowatt	LBTS	large blast/thermal simulator
KGD	known good die	LCD	liquid crystal display
kHz	kilohertz	LCt	lethal concentration time
kJ	kilojoule	LD	lethal dose
km	kilometer	LDCs	lesser developed countries
km/sec	kilometers per second	LCP	liquid crystal polymer
kN	kilonewtons	LE	low explosive
KOH	potassium hydroxide	LEAF	law enforcement access field
KP	North Korea	LEC	local exchange carrier
kPa	kilopascal (0.00987 atmospheres)	LED	light emitting diode
KR	South Korea	LEED	low-energy electron diffraction
Kr	krypton	LEO	low-Earth orbit
krad(Si)	kilorads (in silicon)	LEU	low enriched uranium
KRS	key recovery system	Li	lithium
ksi	thousand pounds per square inch	LICA 12	neopentyl(diallyl)oxy-tri(dioctyl)phosphato titanate
kt	kiloton (yield)	LIDAR	light detection and ranging
kT	kiloton	LIHE	laser-initiated high explosive
KTa	potassium titanyl arsenate	LIS	laser isotope separation
ktap	one thousand dyne centimeters per second	LLTV	low-light-level TV
kV	kilovolt	LLNL	Lawrence Livermore National Laboratory
kV/cm	kilovolts per centimeter	LLRC	low repetition rate capacitors
kV/m	kilovolts per meter	LMFBR	liquid metal fast breeder reactor
kV/mil	kilovolts per mil	LNG	liquefied natural gas
kV/mm	kilovolts per millimeter	LPG	liquefied petroleum gas
kV/ns	kilovolts per nanosecond	LO	low observable
KW	Kuwait	LORAN	long-range aid to navigation
kW	kilowatts	LOS	line of sight
kWe	kilowatt (electric)	LOTWG	Lasers and Optics Technology Working Group
kWh/kg	kilowatt-hours per kilogram	LPD	low probability of detection
l	liter	LPI	low probability of intercept
LAAS	local area augmentation system	LRC	inductor, resistor, capacitor
LADAR	laser radar	LRR	lower reposition rate
LAN	local area network	LRU	line replaceable unit
LANS	local area network system	LSTAT	life support for trauma and transport
LASER	light amplification by stimulated emission of radiation	LTBT	limited test ban treaty
lb/hp-hr	pounds per horsepower-hour	LTS	low-temperature superconductivity
lb/kW	pounds per kilowatt		

LU	Luxembourg
LWIR	long-wave infrared
LY	Libya
m	meter
m	milli ( $10^{-3}$ )
M	million; as prefix, Mega
M&C	management and control
M&S	modeling and simulation
m/sec	meters per second
m <sup>2</sup>	square meters
MA	mega-ampere
mA	milliampere
mA/cm <sup>2</sup>	milliamperes per square centimeter
MAb	monoclonal antibody
MABS	military application of blast simulation
MAC	message authentication code
MAC	modified auxiliary closure
MAGLEV	magnetic levitated
MAGT	MOS-assisted gate thyristor
MALDI	matrix-assisted laser desorption ionization
MAN/WANS	metropolitan area and wide-area networks
MAPO	tris-1-(2-methyl)aziridinyl phosphine oxide
MAV	micro air vehicle
MBBAY	a specific X-ray blowoff code
MBE	molecular beam epitaxy
MBG	multiband gap
Mbit	megabit
Mbps	megabytes per second
Mbytes	megabytes
MC-1	chemical bomb
MCFC	molten carbonate fuel cell
MCM	mine countermeasure
MCM	multichip modules
MCM-C	multichip modules-ceramic
MCM-C/D	multichip modules-ceramic/deposited

MCM-D	multichip modules-deposited
MCM-L	multichip modules-laminated
MCM-L/D	multichip modules-laminated/deposited
MCNC	Microelectronic Center of North Carolina (University)
MCP	massively concurrent processing
MCT	mercury cadmium telluride
MCT	Militarily Critical Technologies
MCT	MOS-controlled thyristor
MCTL	Militarily Critical Technologies List
MCTP	Militarily Critical Technologies Program
MTCR	Missile Technology Control Regime
MCXO	microcomputer-compensated oscillator
MEA	More Electric Aircraft
megarad(Si)	million rads (in silicon)
MEMS	microelectromechanical systems
MEO	middle Earth orbit
MET	molecular electronic technology
Methyl	bis(2-methylaziridinyl)methylamino
METWG	Biomedical Technology Working Group
MeV	million electron volts
MFCG	magnetic flux compression generator
MFTWG	Manufacturing and Fabrication Technology Working Group
mg	milligram
Mg	magnesium
mg/cc	milligrams per cubic centimeter
mg/cm <sup>2</sup>	milligrams per square centimeter
MHD	magnetohydrodynamic
MHD-EMP	magnetohydrodynamic electromagnetic pulse
MHz	megahertz
MIB	management information base
MICLIC	mine clearing line charge

mil	one one-thousandth of an inch	MOSFET	metal-oxide semiconductor field-effect transistor
MILO	magnetic insulated line oscillator	MOUT	military operations in urban terrain
MILSPEC	military specifications	MPa	megapascals
min	minutes	MPEG	Moving Pictures Expert Group
MIRV	multiple independently targetable reentry vehicles	mph	miles per hour
MIS	management information system	MPM	microwave power modules
MIT	Massachusetts Institute of Technology	MPTWG	Materials and Processing Technology Working Group
MITI	Ministry of International Trade and Industry	MPU	microprocessor unit
MJ	megajoule	Mrad(Si)	million rads (in silicon)
mJ	millijoule	MRI	magnetic resonance imaging
ml	milliliter	mRNA	messenger ribonucleic acid
ML	Munitions List (Wassenaar Arrangement)	MS	marine systems
MLIS	molecular laser isotope separation	MS	mass spectrometry
MLRS	multiple launch rocket system	ms	millisecond
MLS	microwave landing system	MSE	mobile subscriber equipment
mm	millimeter	msec (ms)	millisecond
mm <sup>2</sup>	square millimeter	MSIMD	multiple single instruction multiple data
MMC	metal matrix composite	MSTWG	Marine Systems Technology Working Group
MMD	mass medium diameter	MT	metric ton
mmIC	millimeter/microwave integrated circuits	MTBF	mean time between failures
MMT	Methods of Manufacturing Technologies	MTCR	Missile Technology Control Regime
mmW	millimeter wave	MTF	modulation transfer function
MMW	multi-megawatt	Mtops	million theoretical operations per second
MN	mega-newton	MTTF	mean time to failure
MOCVD	metal organic chemical vapor deposition	MUD	multiple user dimensions
MOCVD	metal oxide chemical vapor deposition	MV	megavolt
MOD	means of delivery (of WMD)	MV/cm	megavolts per centimeter
MOEMS	micro-optics-electromechanical system	MV/ns	megavolts per nanosecond
MOO	MUD, object-oriented	MVA	megavolt-amperes
MOOTW	military operations other than war	MW	megawatt
MOPP	mission-oriented protective posture	mW	milliwatt
MOPS	million operations per second	mW/cm <sup>2</sup>	milliwatts per centimeter squared
MOS	metal-oxide semiconductor	MWh/kg	megawatt hours per kilogram
		MX	Mexico



n	nano	nHz	nanohertz
N	newton	Ni	nickel
N D	n-dimensional	NIH	National Institutes of Health
N.B.	nota bene	NIMA	National Imagery Mapping Agency
N/m <sup>2</sup>	newtons per square meter	NIR	near infrared
NA	numerical aperture	NIRIM	National Institute for Research in Inorganic Materials
Na	sodium	NIST	National Institute of Standards and Technology
NAMRU	Naval Medical Research Unit	NL	Netherlands
NASA	National Aeronautics and Space Administration	NLO	nonlinear optical
NATIBO	North American Technology and Industrial Base Organization	nm	nanometer
NATO	North Atlantic Treaty Organization	NM	network management
NAV	navigation	nmi	nautical mile
NAVSAT	navigation satellite	NMMO	3-nitratomethyl-3-methyloxetane
NB	narrow band	nmph	nautical miles per hour
NBC	nuclear, biological, and chemical	NMRCI	National Microelectronics Research Centre, Ireland
NC	numerically controlled	NNWS	non-nuclear weapons states
NCA	national command authorities	NO	Norway
NCIS	National Clinical Information System	NOC	network operations center
NCMS	National Center for Manufacturing Science	NOEL	Nonlinear Electronics Laboratory
NCP	network control point	NONA	nonanitroterphenyl
Nd	neodymium	NOS	network operations centers
NDE	nondestructive evaluation	NP	nonproliferation
NDGPS	National Differential Global Positioning System	NPB	neutral particle beam
NDI	nondestructive inspection	NPT	Nuclear Non-Proliferation Treaty
NDT	nondestructive test	NQ	nitroguanidine
NDUL	Nuclear Dual-Use List (NSG)	NQR	nuclear quadrupole resonance
NE	network element	NRC	National Research Council
NE	northeast	NRC	National Response Center
NEM	nanoelectromechanical	NRC	Nuclear Regulatory Commission
NEMP	nuclear electromagnetic pulse	NRL	Naval Research Laboratory
NEMS	nanoelectromechanical systems	NRT	near real time
NEP	noise equivalent power	NS	nuclear systems
NEPE	nitrate ester plasticized polyether	NSA	National Security Agency
NF	New Forum	NSAN	nonstabilized ammonium nitrate
NG	nitroglycerin	nsec (ns)	nanosecond
nH/A	nanohenries per ampere	NSF	National Science Foundation
		NSG	Nuclear Suppliers Group

NSIAD	National Security and International Affairs Division	P	phosphide
NSOM	nearfield optical scanning microscopy	Pa	pascal
NSTWG	Nuclear Systems Technology Working Group	Pa/s	pascals per second
nT	nanotesla	PAFC	phosphoric acid fuel cell
NTL	Nuclear Trigger List (supplement of NSG)	PAI	pathogenicity island
NTO	3-nitro-1,2,4-triazol-5-one	PALs	permissive action links
NUDET	nuclear denotation	PAM	penetration-augmented munition
NVG	night vision goggles	PAR	precision approach radar
NVS	night vision system	PB	particle beam
NWE	nuclear weapons effects	PBAA	polybutadiene-acrylic acid
NWES	nuclear weapons effects simulation	PBAN	polybutadiene-acrylic acid-acrylonitrile
NWS	nuclear weapons state	PbS	lead sulphide
NZ	New Zealand	PbSe	lead selenide
		PbSnTe	lead tin telluride
		PBV	post-boost vehicle
		PBX	plastic-bonded explosive
		PC	personal computer
		PCB	printed circuit board
		PCDE	polycyanodifluoro-aminoethyleneoxide
O <sup>2</sup> -I	oxygen iodine	PCR	polymerase chain reaction
OC	optical carrier	PCRC	photochemical reaction system
OCCM	optical counter-countermeasures	PCS	personal communications system
OCM	optical countermeasures	PD	photo detectors
Octal	aluminum octadecanoate	PDA	pulsed disk alternator
Octal	HMX/TNT mixtures	PDMS	polydimethylsiloxane
OE	opto-electronics	PEBB	power electronic building block
OFHC	oxygen-free high conductivity	PEFC	proton exchange fuel cell polymer electrolyte fuel cell
OI	optical interconnects	PEIP	programmable embeddable INFOSEC product
OLAP	on-line analytical processing	PEK	polyether ketone
OLTP	on-line transaction processing	PEM	proton exchange membrane
OMV	orbit maneuvering vehicles	PEMFC	proton exchange membrane fuel cell
ONTA	3-nitro-1,2,4-triazol-5-one	PEMS	pico-electromechanical systems
OOT	object-oriented technologies	PET	positron emission tomography
OPC	optical proximity correction	PETN	pentaerythritol tetranitrate
OPO	optical parametric oscillator	PEX	paste extrudable explosive
OPSEC	operations security	PFN	pulse-forming network
ORNL	Oak Ridge National Laboratory		
OSHA	Occupational Safety and Health Administration		
OSI	open systems interconnection		
OTH	over the horizon		
OTS	off the shelf		

PFP AE	perfluorinated polyalkyl ether
PGN	polyglycidyl nitrate
PH	Philippines
PIN	personal identification number
PIN	positive-intrinsic-negative diode
PIO	pilot-induced oscillation
PK	Pakistan
PKI	public key infrastructure
PL	Poland
PLGR	Precision Lightweight GPS Receiver
PM	photomultiplier
PMT	photomultiplier tube
PNT	positioning, navigation, and time
PNTP	precision network time protocol
PNTWG	Positioning, Navigation, and Time Technology Working Group
POE	point of entry
poly-GLYN	poly(nitratomethyloxirane)
POSITIME	position and precise time
POS/NAV	position/navigation
ppm	parts per million
pps	pulses per second
PRBG	pseudo-random bit generator
PRC	People's Republic of China
PRC	photochemical reaction center
PRCS	photochemical reaction center synthesis/structure
PRF	pulse repetition frequency
PROM	programmable read-only memory
ps	picosecond
PSA	pressure swing absorption
PSAM	phase-stabilized ammonium nitrate
PSD	power spectral density
psf	pounds per square foot
psi	pounds per square inch
PSM	phase-shifting masks
PSP	plasma separation process
PSVN	public switched voice networks
PT	Portugal

PT&F	precise time and frequency
PTI	precision targeting identification
PtSi	platinum silicide
PTT	postal, telephone, and telegraph
PTTI	precise time and time intervals
Pu	plutonium
PUREX	plutonium uranium recovery by extraction
PV	photovoltaic
PV/W	pressure-volume/weight
PVD	physical vapor deposition
PVF <sub>2</sub>	polyvinylidene fluoride
PVP	polyvinylpyrrolidone
PWR	pressurized water reactor
PYX	picrylamino dinitropyridine
Q	a figure of merit for a resonant circuit
Q&A	question and answer
QA/QC	quality assurance/quality control
QAM	quadrature amplitude modulation
QIPC	quantum information processing and communication
R	range
R&D	research and development
R/W	read/write
RADAR	radio detecting and ranging
rad(Si)	radiation absorbed dose (in silicon)
rad(Si)/sec	rads (si) per second
rads	radiation absorbed dose
RADX	cyclotri-methylenetrinitramine
RAID	Rapid Assessment and Initial Detection
RAID	redundant array of independent disks
RaLa	radioactive lanthanum
RAM	radar absorbing materials
RAM	random access memory
RBG	random bit generation
RBMK	(Russian) high-power pressure-tube reactor

RCS	radar cross section	SA	Saudi Arabia
RD&E	research, development, and engineering	SA	situational awareness
RDX	cyclotri-methylenetrinitramine	SA/CID	situational awareness/combat identification
RET	resolution enhancement techniques	SABER	situational awareness beacon with reply
rf	radio frequency	SACMA	Suppliers of Advanced Composite Materials Association
RFC	request for comments	SADL FAC	situational awareness data link forward air controller
RFID	radio-frequency identification	SAFF	safing, arming, fuzing, and firing
RHA	rolled homogeneous armor	SAFOR	semi-automated forces
RLG	ring laser gyroscope	SAM	self-assembling membrane
rms	root mean square	SAM	surface-to-air missile
RNA	ribonucleic acid	SAR	synthetic aperture radar
RO	Romania	SATCOM	satellite communications
RO	reverse osmosis	SAW	surface acoustic wave
ROIC	readout integrated circuit	Sb	antimony (stibium)
ROV	remotely operated vehicles	SBL	space-based laser
RPM	Rapid Prototype Manufacturing	SBR	space-based radar
RPM	revolutions per minute	SC	single crystal
RPV	remotely piloted vehicle	SCADA	supervisory control and data acquisition system
RSCAAL	remote sensing chemical agent alarm	SCALPEL	scattering with angular limitation projection electron-beam lithography
RSTA	reconnaissance, surveillance, and target acquisition	SCDE	simplified collective detection equipment
RTD	resonant tunneling diodes	SCM	scanning capacitance microscopy
RTG	radioisotope thermoelectric generators	SCPE	simplified collective protection equipment
RTI	run-time infrastructure	SCR	silicon controlled rectifier
RTTY	radio teletype	SCTWG	Signature Control Technology Working Group
RU	Russia	SCUBA	self-contained underwater breathing apparatus
RV	reentry vehicle	SCUD	western name for early Soviet missile system
RV	remote vehicles	SDH	synchronous digital hierarchy
RW	rotary wing	SDI	strategic defense initiative
s	second	SDIO	Strategic Defense Initiative Organization
S	siemen (unit of electrical conductivity)	SDN	software defined network
S&T	science and technology		
S/A	selective availability		
S/cm	siemens per centimeter		
S/m	siemens per meter		
S/N	signal to noise (ratio)		

SE	Sweden	SIS	signal in space
SE&I	systems engineering and integration	SIT	silicon intensified target
sec	second	SK	Slovakia
SELT	sheet-explosive loading technique	SKIPPER	a specific lagrangian ground motion code
SEM	scanning electronic microscope	SLAM	selectable lightweight attack munition
SEP	spherical error probable	SLAM	standoff land attack missile
SES	surface effect ships	SLAR	side-looking airborne radar
SET	single electron tunneling	SLUFAE	surface-launched fuel air explosive
SET	synchronizing enabling technologies	SLV	space-launch vehicle
SETWG	Sensors Technology Working Group	SMI	structure of management information
SEU	single-event upset	SMNP	simple management network protocol
SEV	surface-effect vehicles	SMP	symmetrical multiprocessor
SFAP	space-frequency adaptive processor	SMR	specialized mobile radio
SG	Singapore	SMS	system management system
SGEMP	system-generated electromagnetic pulse	SN	sensors and navigation
SHA	secure hash algorithm	SNM	special nuclear material
SHF	super high frequency	SNMP	simple network management protocol
SHPL	super high power laser	SNR	signal-to-noise ratio
Si	silicon	SOA	safe operating area
SI	Système Internationale d'Unités (The International System of Units)	SOFC	solid oxide fuel cell
SIA	Semiconductor Industry Association	SOI	silicon on insulator
SiC	silicon carbide	SONET	synchronous optical network
SiGe	silicon germanium	SP	Spain [ES - (ISO)]
SIGINT	signal intelligence	SPAWAR	Space and Naval Warfare Systems Command
SIMD	single instruction, multiple data	SPDT	single point diamond turning
SIMOX	separation by implanted oxygen	SPE	synchronous payload envelope
SiN	silicon nitride	SPECT	single photon emission computerized tomography
SINCGARS	single-channel ground and airborne radio system	SPES	synchronous payload envelopes
SINS	ships inertial navigation systems	SPFC	solid polymer electrolyte fuel cell
SiO <sub>2</sub>	silicon dioxide	SPF/DB	superplastic forming/diffusion bonding
SIP	SINCGARS Improvement Program	SpG	specific gravity
SIPE	soldier integrated protective ensemble	SPLAT	spray lead at target
		SPM	scanning probe microscopy

SPOD	seaport of debarkation
SQC	statistical quality control
SQUID	superconductive quantum interference device
SR	Slovak Republic
SR-12	ammonium dinitraminide
SRA	shop-replaceable assembly
SRAM	short-range attack missile
SRAM	static random access memory
SRBM	short-range ballistic missile
SREMP	source region electromagnetic pulse
SRTM	Shuttle Radar Topography Mission
SS	signaling system
SS	space systems
SSA	solid-state amplifier
SSB	single sideband
SSBN	submarine ballistic missile nuclear
SSM	semi-solid metalworking
SSOP	shrink small outline package
SSN	submarine, nuclear attack
SSR	secondary surveillance radar
SSTWG	Space Systems Technology Working Group
STANAG	standardization agreement
STAP	space-time adaptive processor
STM	scanning tunneling microscope
STM	synchronous transport module
STOL	short takeoff and landing
STOW	synthetic theater of war
STS	stockpile-to-target sequence
STS	synchronous transport signal
SUNY	State University of New York
SURTASS	surveillance towed array sensor systems
SUSOPS	sustained operations
SWAS	small water plane area ship
SWIR	short wavelength infrared
SY	Syria
T	tesla

T	tritium
T/T	transceiver
T/W	thrust-to-weight (ratio)
TacMedCS	Tactical Medical Coordination System
TADIL	tactical data information link
TADMUS	tactical decision-making under stress
TAGN	triaminoguanidinenitrate
TAIW	tetraacetyldibenzylhexaazaiso-wurtzitane
TAPS	tunnel and pipe seals
TAS	thallium arsenic selenide
TAT	1,3,5,7-tetraacetyl-1,3,5,7-tetra-azacyclooctane
TATB	triaminotrinitrobenzene
TB	tuberculosis
TBM	Theater Ballistic Missiles
TBP	tri-n-butyl-phosphate
T <sup>c</sup>	transition temperatures
Tc	critical temperature
Tc	superconducting temperature (high Tc = 77 K, low Tc = 4 K)
Tc	transmit clock/telemetry combiner
TCP/IP	transmission control protocol/internet protocol
TCSEC	trusted computer system evaluation criteria
TCXO	temperature-compensated oscillator
TDD	target detection device
TDI	time delay and integration
TDM	time division multiplexing
TDMA	time division multiple access
TDOA	time difference of arrival
Te	telluride
TE	thermoelectric
TE-PVD	thermal evaporation—physical vapor deposition
TEGDN	triethyleneglycoldinitrate
TEL	transporter/erector launcher
TEM	transverse electromagnetic

TEPAN	tetraethylenepentamine-acrylonitrile	TRADOC	U.S. Army Training and Doctrine Command
TEPANOL	tetraethylenepentamine-acrylonitrileglycidol	TRANSEC	transmission secured
TERCOM	terrain contour matching	TRAPATT	trapped plasma avalanche transit-time triode
Tetryl	trinitro-phenylmethylnitramine	TREE	transient radiation effects on electronics
TEU	technical escort unit	TRMA	traceability, reliability, maintainability, and availability
TFC	transverse field compensation	TRP	Technology Reinvestment Program
TFT	thin-film transistor	TSA	temperature swing adsorption
T <sub>g</sub>	glass transition temperature	TSOP	thin small outline package
TH	Thailand	TSR	thermostructural shock
ThAD	tetranitrotetraaradecalin	TSS	telecommunications system sector
THz	terahertz	TTP	tactics, techniques and procedures
TI	target identification	TTP	trusted third party
TI	thermal imaging	TV	television
Ti	titanium	TVC	thrust vector control
TIR	total indicated reading	TVOPA	(tris vinoxyp propane adduct) 1,2,3-tris(1,2-bis(difluoro-amonio)ethoxy)propane
TIS	total integrated scattering	TW	Taiwan
TIS	trusted information system	TW	terawatt
TLGC	transfer line gas chromatography	TW	throw weight
TMD	Theater Missile Defense	TW	toxin weapon
TMN	telecommunication management network	TWG	Technology Working Group
TMP	trimethylol propane	TWT	traveling wave tube
TMS	thermomechanical shock	U	uranium
TN	thermonuclear	UA	Ukraine
TN	Tunisia	UAV	unmanned aerial vehicles
TNAD	1,4,5,8-tetranitro-1,4,5,8-tetraazadecalin	UCAV	uninhabited combat air vehicle
TNAZ	1,1,3-trinitroazetidine	UDMH	unsymmetrical dimethyl hydrazine
TNEOC	polynitroorthocarbonate	UF <sub>6</sub>	uranium hexafluoride
TNGU	tetranitroglycoluril	UGT	underground testing
TNT	trinitrotoluene	UGWET	underground weapons evaluation and testing
TOPS	total object processing system	UHF	ultrahigh frequency
Torr	pressure equivalent of 1 millimeter of mercury	UK	United Kingdom
TOW	tube-launched, optically tracked, wire-guided antitank missile	ULSI	ultra-large-scale integration
TPB	triphenyl bismuth	UN	United Nations
TPP	theoretical peak performance		
TPV	thermophotovoltaics		
TR	Turkey		

UNDEX	underwater explosion	VMF	variable message format
uPa/g	micropascal per gram	VMS	vehicle management system
UPS	uninterruptible or uninterrupted power supply	VN	Vietnam
U.S.	United States of America	VOR	very-high-frequency omni-directional range
USA	U.S. Army	VPB	vacuum power booster
USAF	U.S. Air Force	VPI	vertical plane imaging
USAMRIID	United States Army Medical Research Institute of Infectious Diseases	VPN	virtual private network
USG	United States Government	VR	virtual reality
USML	United States Munition List	VSAT	very-small-aperture terminal
USN	U.S. Navy	VTOL	vertical takeoff and landing
USNO	United States Naval Observatory	VTR	video tape recorder
USSR	Union of Soviet Socialist Republics	VWF	variable message format
UTC	coordinated universal time	VX	chemical nerve agent
UTS	ultimate tensile strength	W	watt
UUV	unmanned underwater vehicle	W/cm <sup>2</sup>	watts per square centimeter
UV	ultraviolet	W/in	watts per inch
UWB	ultra-wideband	W/kg	watts per kilogram
UXO	unexploded ordnance	W/L	watt per liter
V	volt	W/s	watts per second
V Agents	nerve agents	w-h/kg	watt-hour per kilogram
V&V	verification and validation	WA	Wassenaar Arrangement
V/m	volts per meter	WA Cat	Wassenaar Arrangement—Dual-Use List Category
V/sec	volts per second	WA ML	Wassenaar Arrangement—Munitions List
V-A	volt-ampere	WAAS	wide-area augmentation system
VCN	voice communications network	WAM	wide-area mine
VCSEL	vertical cavity surface emitting laser	WANS	wide-area network system
VE	Venezuela	WB	wide band
VEMASID	vehicle magnetic signature duplicators	WDM	wavelength division multiplexing
VETRONICS	vehicle electronics	We/kg	watts (electric) per kilogram
VHF	very high frequency	WET	weapons effects test
VHSIC	very-high-speed integrated circuits	WETWG	Weapons Effects and Counter-measures Technology Working Group
VIS	visible	WGS	World Geodetic System
VLf	very low frequency	Whr/kg	watt-hour per kilogram
VLSI	very-large-scale integration	Whr/L	watt-hour per liter
		WII	world information infrastructure



WMD	weapons of mass destruction	XPS	photoelectron spectroscopy
WORM	write once/read many		
WP	white phosphorus	YAG	yttrium/aluminum garnet
WWMCCS	World-Wide Military Command and Control System	YBCO	yttrium barium copper oxide
		YSGG	yttrium scandium gallium garnet
WPAFB	Wright-Patterson Air Force Base		
WRA	weapon replacement assembly	Z	atomic number
WSMR	White Sands Missile Range	ZA	South Africa
WST	Weapons Systems Technologies	ZCS	zero current switching
WTA	Worldwide Technology Assessment	Zn	zinc
WTEC	World Technology Evaluation Center	ZNP	zero-knowledge proofs
WWI	World War I	ZnS	zinc sulfide
WWMCCS	Worldwide Military Command and Control System	ZnSe	zinc selenide
		ZrF <sub>4</sub>	zirconium fluoride
WWW	Worldwide Web	ZVS	zero voltage switching